

## Material: ASTM A240 UNS S38100

### Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASTM A240 Chromium and Chromium-Nickel Stainless Steel for Pressure Vessels and for General Applications

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

**Belongs to the Industry:** Steel, Plate, Sheet and Strip

Chemical Composition			Heat Treatment			
Carbon	C %	0.080 max.	Solution Annealing			
Silicon	Si %	1.500 - 2.500				
Manganese	Mn %	2.000 max.				
Phosphorus	P %	0.030 max.				
Sulphur	S %	0.030 max.				
Chromium	Cr %	17.000 - 19.000				
Nickel	Ni %	17.500 - 18.500				
Iron	Fe %	Balance				
-	-	-				
-	-	-	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	515 min.		
-	-	-	Yield Strength in Mpa	205 min.		
-	-	-	Elongation in %	40 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in BHN	217 max.		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S38100	UNS	USA	Steel
A167 XM-15	ASTM	USA	Steel, Sheet, Plate and Strip
A213 XM-15	ASTM	USA	Steel and Tube
A249 TPXM-15	ASTM	USA	Steel and Tube
A269 TPXM-15	ASTM	USA	Steel and Tube
A312 TPXM-15	ASTM	USA	Steel and Pipe
A943 TPXM-15	ASTM	USA	Steel and Pipe

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